This listing of claims will replace all prior versions and listings of claims in the instant application:

CLAIMS

1. (Currently Amended) A method for operating a speech recognition system, in which a program-controlled recognizer [[(1)]] performs the steps of:

dissecting a speech signal into frames and computing any kind of feature vector for each frame [[,]];

labeling frames by characters or groups of them yielding a plurality of labels per phoneme [[,]]; and

decoding said labels according a predetermined acoustic model to construct one or more words or fragments of a word, in which method

wherein a plurality of recognizers are accessible to be activated for speech recognition, and are combined in order to balance the results of speech recognition done by a single recognizer, eharacterized by the steps of the method further comprising:

- a) collecting (210, 220, 230, 240) selection base data characterizing speech recognition boundary conditions with sensor means [[(5)]];
- b) using [[(260)]] program-controlled arbiter means [[(6)]] for evaluating the collected data; and
- c) selecting [[(290)]] the best suited recognizer or a combination thereof out of the plurality of available recognizers according to said evaluation.
- 2. (Currently Amended) The method according to claim 1, in which said sensor means [[(5)]] is one or more of:

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a decision logic, including software program, physical sensors or a combination of them thereof.

- 3. (Currently Amended) The method according to claim 1, further comprising the steps of:
- a) processing [[(260)]] a physical sensor [[(5)]] output in a decision logic implementing one or more of [[:]] statistical tests, decision trees, <u>and fuzzy</u> membership functions [[,]] ; <u>and</u>
- b) returning [[(270)]] from said process a confidence value to be used in the sensor select/ combine decision.
- 4. (Currently Amended) The method according to claim 1, in which selection base data which have led to a recognizer select decision, is stored in a database for a repeated fast access [[(250)]] thereof in order to obtain a fast selection of recognizers.
- 5. (Currently Amended) The method according to claim 1, further comprising the step of:

selecting [[(290)]] the number and/or combination of recognizers dependent [[(280)]] of the current processor load.

6. (Currently Amended) The method according to claim 1, further comprising the step of:

storing the mapping rule [[(7)]] how one acoustic model is transformed to another one, instead of storing a plurality of models themselves.

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7. (Currently Amended) A computer system having means for performing the steps of a method according to one of the preceding claims 1 to 6. comprising:

means for dissecting a speech signal into frames and computing any kind of feature vector for each frame;

means for labeling frames by characters or groups of them yielding a plurality of labels per phoneme;

means for decoding said labels according a predetermined acoustic model to construct one or more words or fragments of a word,

wherein a plurality of recognizers are accessible to be activated for speech recognition, and are combined in order to balance the results of speech recognition done by a single recognizer, the computer system carrying out the method of:

- a) collecting selection base data characterizing speech recognition boundary conditions with sensor means;
- b) using program-controlled arbiter means for evaluating the collected data; and
- c) selecting the best suited recognizer or a combination thereof out of the plurality of available recognizers according to said evaluation.
- 8. (New) The system according to claim 7, in which said sensor means is one or more of:

a decision logic, a software program, physical sensors or a combination thereof.

[[8.]] <u>9.</u> (Currently Amended) A computer program for execution in a data processing system comprising computer program code portions for

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performing respective steps of the method according to anyone of the preceding claims 1 to 6, :

dissecting a speech signal into frames and computing any kind of feature vector for each frame;

labeling frames by characters or groups of them yielding a plurality of labels per phoneme; and

decoding said labels according a predetermined acoustic model to construct one or more words or fragments of a word,

wherein a plurality of recognizers are accessible to be activated for speech recognition, and are combined in order to balance the results of speech recognition done by a single recognizer, the method further comprising:

- a) collecting selection base data characterizing speech recognition boundary conditions with sensor means;
- b) using program-controlled arbiter means for evaluating the collected data; and
- c) selecting the best suited recognizer or a combination thereof out of the plurality of available recognizers according to said evaluation,

when said computer program code portions are executed on a computer.

10. (New) The computer program according to claim 9, in which said sensor means is one or more of:

a decision logic, a software program, physical sensors or a combination thereof.

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[[9.]] 11. (Currently Amended) A computer program product stored on a computer usable medium comprising computer readable program means for causing a computer to perform the method of anyone of the claims 1 to 6, steps of:

dissecting a speech signal into frames and computing any kind of feature vector for each frame;

labeling frames by characters or groups of them yielding a plurality of labels per phoneme; and

decoding said labels according a predetermined acoustic model to construct one or more words or fragments of a word,

wherein a plurality of recognizers are accessible to be activated for speech recognition, and are combined in order to balance the results of speech recognition done by a single recognizer, the method further comprising:

- a) collecting selection base data characterizing speech recognition boundary conditions with sensor means;
- b) using program-controlled arbiter means for evaluating the collected data; and
- c) selecting the best suited recognizer or a combination thereof out of the plurality of available recognizers according to said evaluation,

when said computer program product is executed on a computer.

12. (New) The computer program product according to claim 11, in which said sensor means is one or more of:

a decision logic, a software program, physical sensors or a combination thereof.

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